Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-11-27-61** **Date: 09/11/2018**

Customer : Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Gandhinagara Chethan Hospital road and surrounding areas in ward no.01 of Yelahanka Sub division.

Agency : Sri. A. Rajendra Reddy, No.14, Mathrushre Nilaya, Vinayakanagara, Amurthahalli, Bangalore-560092.

Customer's Reference : EE(YNK.D)E-PMT-19/W.O/000072/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-11-18

Sample ID No : 2018-11-27-61 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	02/11/2018	09/11/2018	150.05 X 149.87 X 151.30	22488	8.198	395.8	17.6	17.2
2	Drain Concrete	M20	02/11/2018	09/11/2018	149.20 X 149.67 X 151.07	22332	8.317	384.1	17.2	
3	Drain Concrete	M20	02/11/2018	09/11/2018	151.93 X 150.18 X 149.94	22818	8.255	381.1	16.7	

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Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-11-27-61** **Date: 09/11/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Gandhinagara Chethan Hospital road and surrounding areas in ward no.01 of Yelahanka Sub division.
Agency	:	Sri. A. Rajendra Reddy, No.14, Mathrushre Nilaya, Vinayakanagara, Amurthahalli, Bangalore-560092.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/000072/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-11-18
Sample ID No	:	2018-11-27-61 /03
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS. 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	09/11/2018

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Sl.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	02/11/2018	09/11/2018	150.72 X 150.97 X 150.78	22753	8.104	411.8	18.1	17.8
2	Drain Concrete	M20	02/11/2018	09/11/2018	151.93 X 151.09 X 151.39	22956	8.487	404.0	17.6	
3	Drain Concrete	M20	02/11/2018	09/11/2018	150.30 X 149.12 X 150.21	22413	8.124	399.0	17.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-11-27-61** **Date: 09/11/2018**
Customer	:	Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Gandhinagara Chethan Hospital road and surrounding areas in ward no.01 of Yelahanka Sub division.
Agency	:	Sri. A. Rajendra Reddy, No.14, Mathrushre Nilaya, Vinayakanagara, Amurthahalli, Bangalore-560092.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/000072/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-11-18
Sample ID No	:	2018-11-27-61 /05
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	09/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	02/11/2018	09/11/2018	149.50 X 149.22 X 150.41	22310	8.562	390.4	17.5	17.5
2	Drain Concrete	M20	02/11/2018	09/11/2018	151.95 X 151.97 X 151.14	23093	8.153	416.6	18.0	
3	Drain Concrete	M20	02/11/2018	09/11/2018	149.04 X 149.94 X 150.76	22348	8.263	377.7	16.9	

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-11-27-61** **Date: 31-10-18**
Customer	:	Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Gandhinagara Chethan Hospital road and surrounding areas in ward no.01 of Yelahanka Sub division.
Agency	:	Sri. A. Rajendra Reddy, No.14, Mathrushre Nilaya, Vinayakanagara, Amurthahalli, Bangalore-560092.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/000072/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-10-18
Sample ID No	:	2018-11-27-61 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	29-10-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	185	206	20.6	79.4	60-95	75-100	85-100	95-100
4	1.18 mm	201	407	40.7	59.3	30-70	55-90	75-100	90-100
5	600 micron	168	575	57.5	42.5	15-34	35-59	60-79	80-100
6	300 micron	229	804	80.4	19.6	5-20	8-30	12-40	15-50
7	150 micron	153	957	95.7	4.3	0-10	0-10	0-10	0-15
8	Pan	43	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-11-27-61

Sample ID No : 2018-11-27-61 /03

Date: 31-10-18

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.42	–
2	Specific Gravity	2.53	–
3	Material finer than 75 micron(%)	3.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-11-27-61** **Date: 31-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Gandhinagara Chethan Hospital road and surrounding areas in ward no.01 of Yelahanka Sub division.
Agency	:	Sri. A. Rajendra Reddy, No.14, Mathrushre Nilaya, Vinayakanagara, Amurthahalli, Bangalore-560092.
Customer Reference	:	EE(YNK.D)E-PMT-19/W.O/000072/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-10-18
Sample ID No	:	2018-11-27-61 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	29-10-18

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SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2560	2805	56.1	43.9	25-55
4	4.75 mm	2033	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-11-27-61** **Date: 31-10-18**

Sample ID No : 2018-11-27-61 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-11-27-61** **Date: 31-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Gandhinagara Chethan Hospital road and surrounding areas in ward no.01 of Yelahanka
Agency	:	Sri. A. Rajendra Reddy, No.14, Mathrushre Nilaya, Vinayakanagara, Amurthahalli, Bangalore-560092.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/000072/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	29-10-18
Sample ID No	:	2018-11-27-61 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	29-10-18

A.E.E

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	244	244	1.6	98.4	90-100
3	20 mm	5432	5676	37.8	62.2	30-70
4	10 mm	4332	10008	66.7	33.3	10-35
5	4.75 mm	4654	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-11-27-61** **Date: 31-10-18**

Sample ID No : 2018-11-27-61 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.22	–

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-11-27-61 **Date: 31-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Gandhinagara Chethan Hospital road and surrounding areas in ward no.01 of Yelahanka Sub division.
Agency	:	Sri. A. Rajendra Reddy, No.14, Mathrushre Nilaya, Vinayakanagara, Amurthahalli, Bangalore-560092.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/000072/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-10-18
Sample ID No	:	2018-11-27-61 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	30-10-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

A.E.E

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-11-27-61** **Date: 27-11-18**
Customer	:	Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Gandhinagara Chethan Hospital road and surrounding areas in ward no.01 of Yelahanka Sub division.
Agency	:	Sri. A. Rajendra Reddy, No.14, Mathrushre Nilaya, Vinayakanagara, Amurthahalli, Bangalore-560092.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/000072/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-10-18
Sample ID No	:	2018-11-27-61 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	30-10-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

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Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-11-27-61 **Date: 30/11/2018**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Gandhinagara Chethan Hospital road and surrounding areas in ward no.01 of Yelahanka Sub division.

Agency : Sri. A. Rajendra Reddy, No.14, Mathrushre Nilaya, Vinayakanagara, Amurthahalli, Bangalore-560092.

Customer's Reference : EE(YNK.D)E-PMT-19/W.O/000072/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-11-2018

Sample ID No : 2018-11-27-61 /04

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	02/11/2018	30/11/2018	150.80 X 151.86 X 149.23	22901	8.280	544.8	23.8	23.3
2	Drain Concrete	M20	02/11/2018	30/11/2018	150.01 X 151.14 X 149.07	22673	8.098	501.5	22.1	
3	Drain Concrete	M20	02/11/2018	30/11/2018	150.03 X 149.12 X 149.10	22372	8.290	535.8	23.9	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-11-27-61** **Date: 30/11/2018**

Customer : Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Gandhinagara Chethan Hospital road and surrounding areas in ward no.01 of Yelahanka Sub division.

Agency : Sri. A. Rajendra Reddy, No.14, Mathrushre Nilaya, Vinayakanagara, Amurthahalli, Bangalore-560092.

Customer's Reference : EE(YNK.D)E-PMT-19/W.O/000072/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-11-2018

Sample ID No : 2018-11-27-61 /06

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	02/11/2018	30/11/2018	149.61 X 151.27 X 149.29	22632	8.291	541.3	23.9	23.2
2	Drain Concrete	M20	02/11/2018	30/11/2018	149.68 X 151.52 X 150.08	22679	8.384	506.7	22.3	
3	Drain Concrete	M20	02/11/2018	30/11/2018	151.58 X 151.18 X 150.04	22916	8.004	532.9	23.3	

A.E.E

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 30/11/2018

Lab ID	:	CP-2018-11-27-61
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Gandhinagara Chethan Hospital road and surrounding areas in ward no.01 of Yelahanka Sub division.
Agency	:	Sri. A. Rajendra Reddy, No.14, Mathrushre Nilaya, Vinayakanagara, Amurthahalli, Bangalore-560092.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/000072/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-11-2018
Sample ID No	:	2018-11-27-61 /02
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	02/11/2018	30/11/2018	149.26 X 149.25 X 149.39	22278	8.070	517.2	23.2	22.9
2	Drain Concrete	M20	02/11/2018	30/11/2018	150.29 X 149.88 X 151.31	22525	8.397	498.4	22.1	
3	Drain Concrete	M20	02/11/2018	30/11/2018	151.42 X 150.84 X 149.33	22839	8.554	536.5	23.5	

AE-I
A.E.E

Note:
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